

# SIEMENS

## MAMMOMAT 3000

**SP**

Service

### Repair Instructions

Replacement of the locking lever for "flying wing"

Kit part No. 64 21 528

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## Purpose

This document describes how to change a broken or worn locking lever for the "flying wing".

## Tools required

- Standard service equipment
- Clinometer with feature to measure minutes of arc (e g wyler)
- General purpose grease
- Abrasive cloth

## Time required

Approximately 4 hours / 1 person

## Contents of update kit

The update kit (Part No. 64 21 528) contains the following parts:

Position	Quantity	Description
A	1	Lever, assembled
B	1	Spring
C	1	Locking pin
D	2	Locking ring
E	1	Holder
F	2	Screw
-	1	Repair Instructions (this document)

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## Dismounting

1. Check that the swivel arm is in position 0°.  
*If not;*  
Switch the MAMMOMAT ON and turn the swivel arm to 0°.
2. Switch the MAMMOMAT OFF.
3. Secure optimum stability of the stand.
4. Using the clinometer, measure the inclination of the object table and note this value (accuracy  $\pm 1^\circ$ ).

Inclination x: \_\_\_\_\_°

Inclination y: \_\_\_\_\_°

5. Remove the shaft covers from swivel arm and tube.

### NOTICE

**Before removing the compression unit it is essential to mark up the position of the base beam of the compression unit. This is to ensure proper alignment when remounting the compression unit.**

6. Remove the compression unit:
  - 6.1. Remove cable guide (1/Fig. 1).
  - 6.2. Remove earth screw (2/Fig. 1) and ground cables (3/Fig. 1).

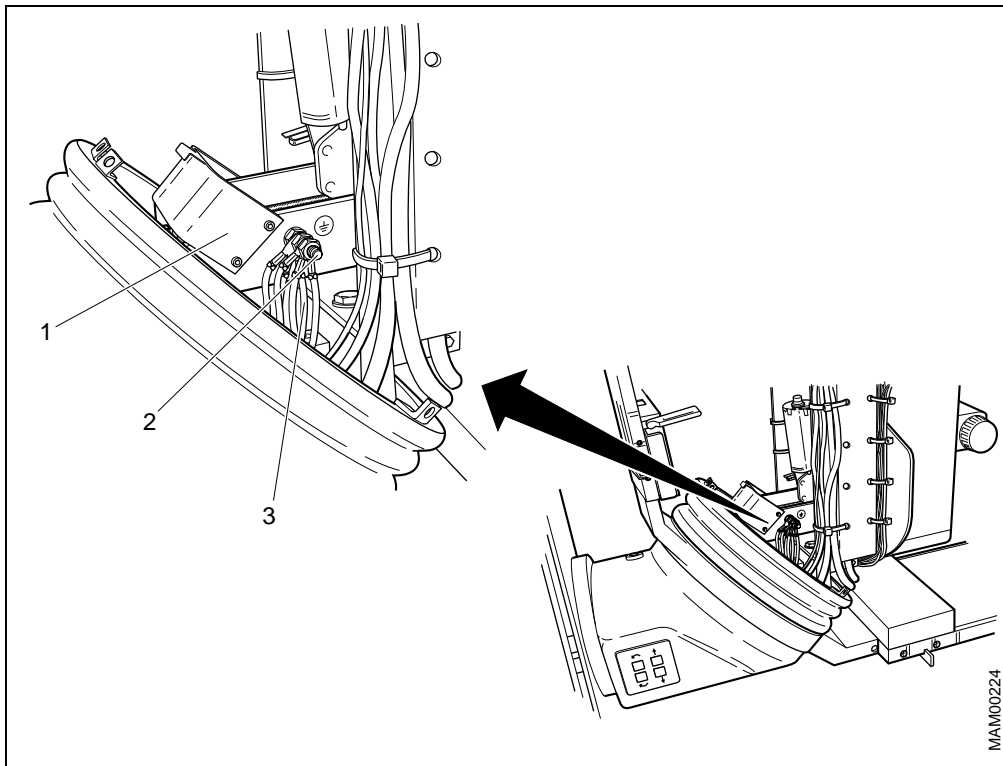


Fig. 1 Position of the protective conductors and the cable guide

- 6.3. Loosen and remove screws and washers 1 and 2 that hold the compression unit base beam (Fig. 2).
- 6.4. Loosen screw 3 (Fig. 2) by half to tilt the compression unit slightly forward.
- 6.5. Pull connector X872 out of printed circuit board D805.
- 6.6. Pull out connectors X873 and X874, which are located behind the compression unit.
- 6.7. Loosen and remove screw 3 (Fig. 2), and remove the compression unit.

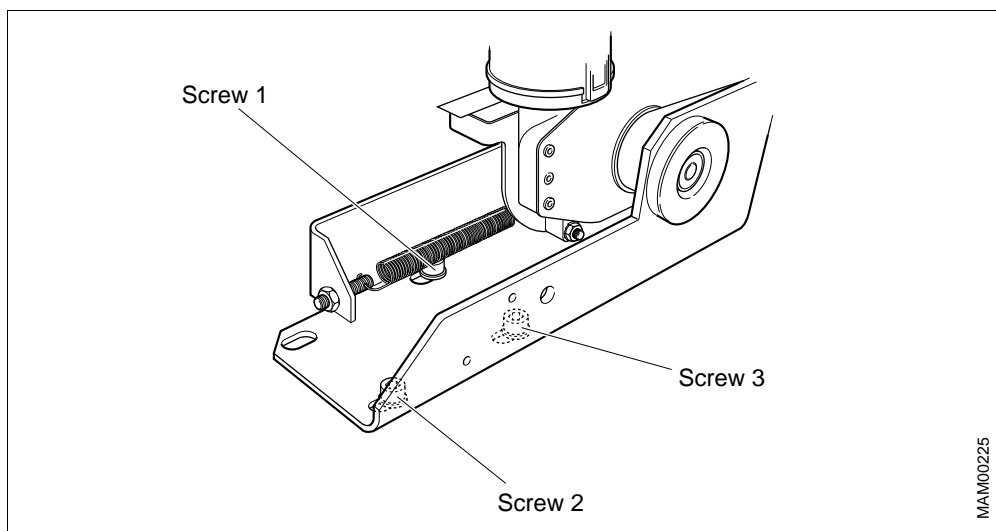


Fig. 2 Removal of compression unit

7. Loosen bellow by removing plastic guide blocks inside the bellow.
8. Loosen the screws for the ring (1/Fig. 3).

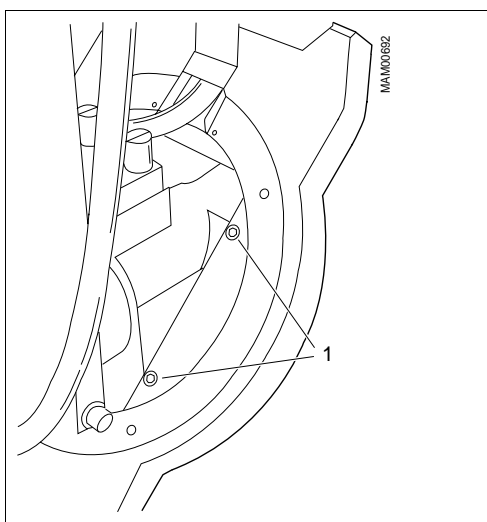


Fig. 3 Position of two of the four screws for the ring

9. Loosen the rotation stop screw (2/Fig. 4). Then turn the object table arm further clockwise to make the two screws accessible.

10. Loosen the screws for the holder (1/ Fig. 4) (this screws are later to be replaced by new screws).

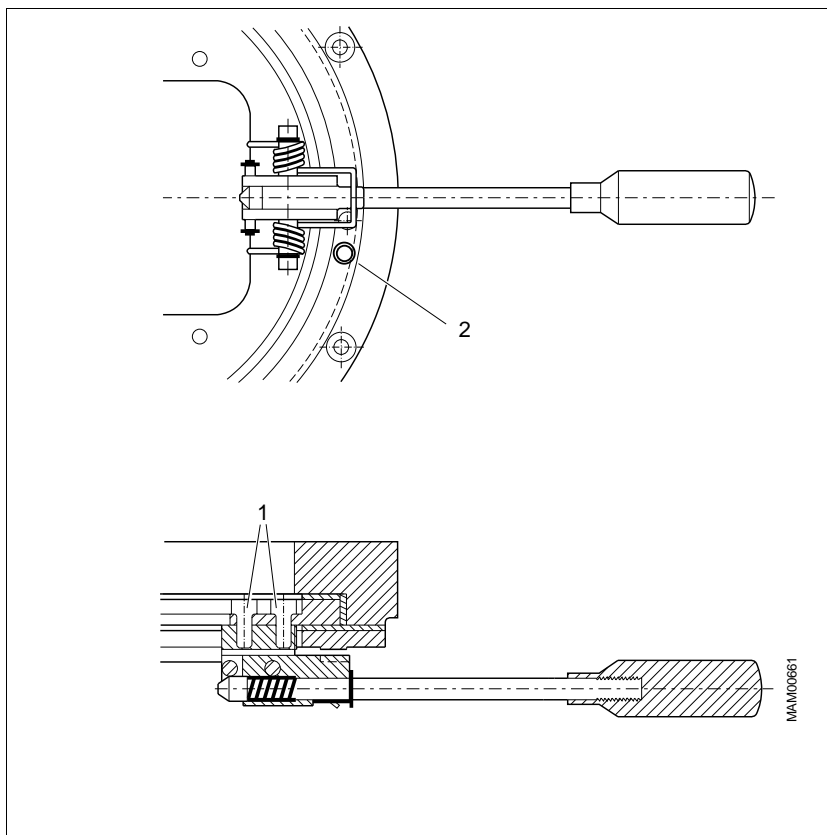


Fig. 4 Locking lever, view from underneath and a section

11. Remove the old holder.

## Kit mounting

1. Coat the outside of the locking pawl with general purpose grease. Attach the lever assembly to the holder with the new spring, the new locking pin and the new locking rings (Fig. 5).

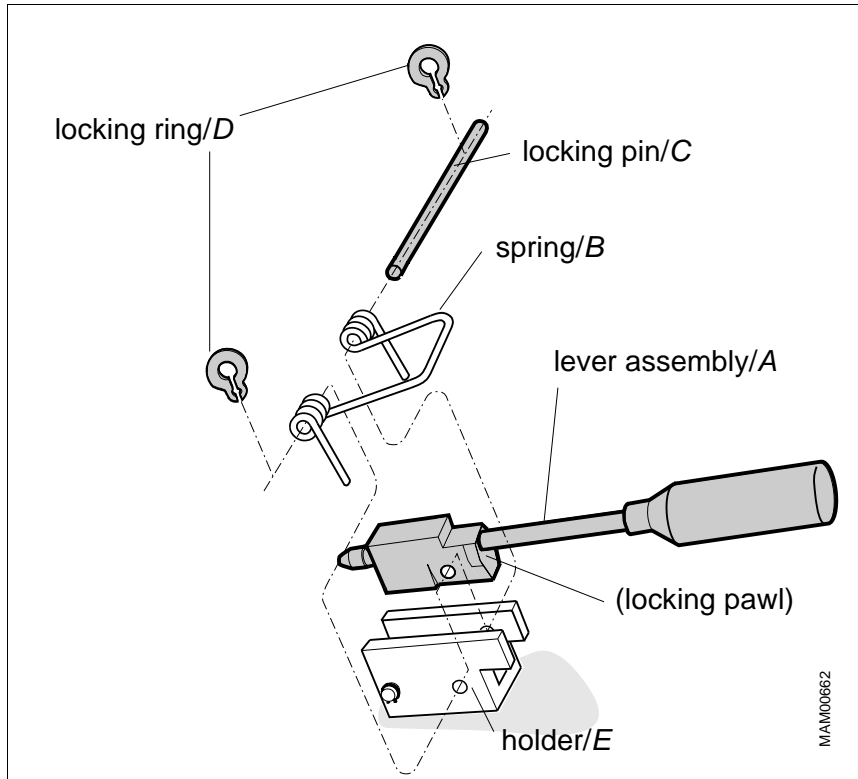


Fig. 5 Kit mounting

2. Check the surface of the large ring, on which the pawl slides during rotation of the "flying wing". If rough spots are found, use a fine abrasive cloth to smoothen the surface.
3. Coat lightly with general grease the contact area between the locking pawl and the large ring on which the pawl slides during rotation of the "flying wing".

## Final procedures

1. Fasten the new holder loosely with new screws.
2. Turn the swivel arm to 0°.
3. Fit the rotation stop screw.
4. Fit the screws for the ring. Make sure that the object table have the same inclination as before the ring was removed.
5. Tighten the screws for the holder.
6. Check the operation of the lever for both "flying wing" positions.
7. Fit the bellow.
8. Fit the compression unit.
9. Fit the covers.